

Datasheet

Product features

- Multi-function device with operating modes for visualization of input 1, input 2 or combinations of inputs (1+2, 1-2, 1x2, 1:2)
- Two universal 16 bit analog inputs for -10 ... +10 V / 0 ... 10 V / 0 ... 20 mA / 4 ... 20 mA
- High accuracy reference output 10 V for potentiometers > 1 kOhm
- Bright and high-contrast display with event-dependent colour variations
- Emulation of a 7-segment display inclusively icons and units
- Intuitive and easy parameterization by plain text and touchscreen
- 24 V auxiliary output for encoder supply
- Totalization for each input
- Linearization with 24 control points for each input
- Numerous features, e. g. tara, averaging filter, sampling time for each input
- 96 x 48 mm (3.78 x 1.89 inch) norm panel housing and IP65 protection



Mechanical data



| | |
|--|--|
| Dimensions Housing Cut out | 96 x 48 x 116 mm 91 x 43 mm |
| Material | ABS, UL 94 V-0 |
| Weight | approx. 200 g |
| Display | LCD (backlight) |
| Display range | 8 digits plus sign (-99999999 ... 99999999) |
| Digit height | 13 mm |
| Colour | red / green / yellow (switchable) |
| Operation | resistive touchscreen |
| Serial interface Format (option AO / CO) Format (option AR / CR) Baud rate | RS232 RS485 9600, 19200 or 38400 Baud |
| Storage temperature | -25 °C ... +70 °C |
| Operation temperature | -20 °C ... +60 °C |
| Conformity and standards EMV 2014/30/EU: NS 2014/35/EU: (only for option AC und RL) RoHS (II) 2011/65/EU RoHS (III) 2015/863: | EN 61326-1 EN 55011 / CISPR11 class A EN 61010-1 EN IEC 63000 |
| Protection class front rear | IP65 IP20 |

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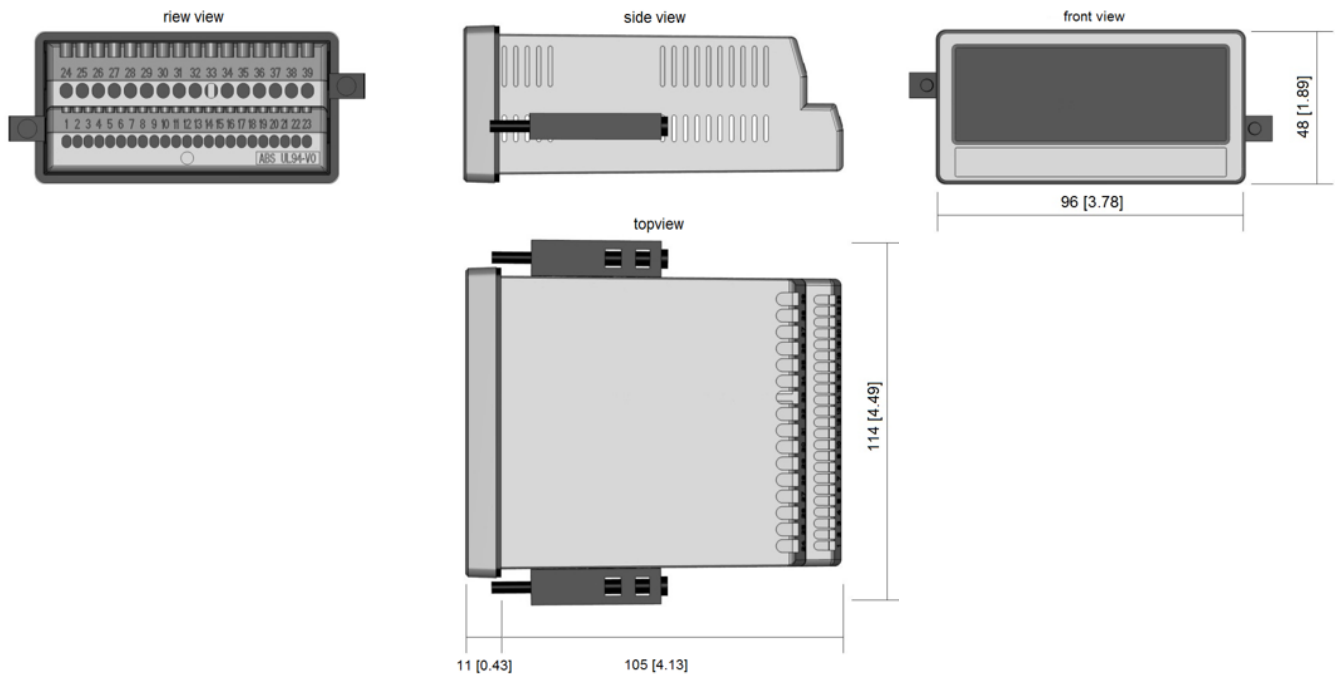
Electrical data

| | |
|--|--|
| Power supply DC Input voltage Protection circuit Consumption Fuse protection | 18 ... 30 VDC reverse polarity protection approx. 100 mA (unloaded) extern T 0,5 A |
| Power supply AC Input voltage Protection circuit Fuse protection | (Option AC) 115 ... 230 VAC, 50 ... 60 Hz approx. 3 VA (unloaded) extern: T 0,1 A |
| Encoder supply DC version AC version | 24 VDC (approx. 1 V lower than power supply voltage), max. 250 mA or 5 VDC ($\pm 15\%$), max. 250 mA 24 VDC ($\pm 15\%$), max. 150 mA until 45°C / 80 mA by more than 45°C |
| Control inputs Number of inputs Format Frequency Load | 3 HTL, PNP (Low 0 ... 3 V, High 9 ... 30 V) max. 10 kHz max. 2 mA / $R_i > 15 \text{ k}\Omega$ / 470 pF |
| Analog outputs Configuration Voltage output Current output Resolution Accuracy Reaction time | (Option AO / AR) Current or voltage output -10 ... +10 V (<2 mA) 0/4 ... 20 mA (burden <270 Ω) 16 Bit $\pm 0,1 \%$ 0°C ... +45°C $\pm 0,15 \%$ -20°C ... 0°C und +45°C...+60°C < 10 ms |
| Control outputs Number of outputs Format / level Current output Reaction time | (Option AO / AR / CO / CR) 4 5 ... 30 V (according to output voltage at OM+), PNP max. 200 mA < 1 ms |
| Relay outputs Number of outputs Configuration AC-Switching capacity DC-Switching capacity Reaction time | (Option RL) 2 potential free changeovers max. 250 VAC / 3 A / 750 VA max. 150 VDC / 2 A / 50 W < 20 ms |
| IO-Link Module / Revision: Bit rate: Port class: | Device / V1.1 COM 3 Type A |

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Dimensions

Dimensions in mm [inch].



Available options

EP35-A-IOL: Basic unit with 2 analog inputs (16 Bit), 3 control inputs and IO-Link interface

- Option **AC:** Power supply 115 / 230 VAC
- Option **AO:** 16-bit analogue output, 4 control outputs, serial RS232 interface
- Option **AR:** 16-bit analogue output, 4 control outputs, serial RS485 interface
- Option **CO:** 4 control outputs, serial RS232 interface
- Option **CR:** 4 control outputs, serial RS485 interface
- Option **RL:** 2 relay outputs
- Option **IO:** IO-Link Device V1.1

Options can be combined.

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Ordering example

Type EP35 - A-IOL - 24 - AC-IO
EP35

Absolute

A = absolute

Encoder input

IOL = IO-Link

Encoder supply

24 = 24 VDC, DC or AC version

5 = 5 VDC, only DC version

Option

AC = Power supply 115 / 230 VAC

AO = 16-bit analogue output, 4 control outputs, serial RS232 interface

AR = 16-bit analogue output, 4 control outputs, serial RS485 interface

CO = 4 control outputs, serial RS232 interface

CR = 4 control outputs, serial RS485 interface

RL = 2 relay outputs

IO = IO-Link Device V1.1

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.